



## Espruno MDBT42Q Breakout

PRODUCT ID: 3876

### Description

Try the JavaScript of things with the **Espruno** - the world's first open-source JavaScript microcontroller! This little board has an nRF52832 microcontroller pre-programmed with Espruno all ready to go so you can start playing with Javascript-microcontrollers. **Warning: if you only use Assembly and think that even embedded C/C++ is for wimps, this device might explody your head.**

The Espruino is a tiny computer with a JavaScript interpreter, allowing for instant feedback from whatever device you're working with. Simply set up your code with the Espruino and send it to the device without having to wait for the board to erase and reprogram the flash - it's fully interpreted!

The Espruino's fast response time has a lot of advantages. It allows for quick and easy debugging and is a great way to test your project before your big reveal. This module is a miniature, embeddable version of the Pixl.js - it just contains the Espruino-running Bluetooth LE module, regulator and reset button. In addition, you can control the Espruino from almost anything that has Bluetooth Low Energy.

Each order comes with the Open Source JavaScript interpreter Espruino pre-installed, which makes it incredibly easy to use and means you can get started in just seconds, without any prior programming experience. You can start programming straight out of the box using WebBluetooth for an IDE!

### **Breakout board features**

Bluetooth Low Energy

Espruino JavaScript interpreter pre-installed

nRF52832 SoC - 64MHz ARM Cortex M4, 64kB RAM, 512kB Flash

22 x GPIO (capable of PWM, SPI, I2C, UART), including 7 analog inputs - 0.1" pin header

2.5 - 16v voltage input, 20uA power draw when advertising

Red and Green LEDs

Button

Built in thermometer

NFC tag programmable from JavaScript (when an antenna is connected)

Some light soldering is required to power this small breakout. It isn't the easiest Espruino to start with, but when you need to go *small* this one is as tiny as it gets.

For other great embedded Javascript development boards from Espruino, check out the classic Espruino and the little Espruino Pico.

### **Technical Details**

Product Weight: 2.4g / 0.1oz